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ABSTRACT

In fall 1985, a computerized prerequisite checking system was implemented in the San Jose/Evergreen Community College District (SJ/ECCD) featuring an informational mode, which provides information about whether a student meets a prerequisite, and a lock-out mode, which prevents a student from registering for classes if prerequisites are not met. The system was in an informational mode for all courses for fall 1985 and spring 1986, and began implementing the lock-out mode for English in fall 1986, and for English as a Second Language in spring 1987. In summer 1987, a study was conducted to choose additional disciplines for the lock-out mode. Study findings included the following: (1) as course prerequisites were increasingly enforced and as available data became more accurate and complete, the total percentage of students not meeting prerequisites decreased from 41% to 31% to 24% to 15% between fall 1985 and spring 1987; (2) disciplines with complex prerequisites or in which students could easily by-pass advisory prerequisites anticipated the greatest impact; (3) of the disciplines scheduled for lock-out in fall 1987 and spring 1988, the disciplines with the greatest percentage of students not meeting prerequisites in spring 1987 were Construction (57%), Laser (32%), Nursing (30%), and Drafting (28%). (EJV)

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Institutional Research

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HOW MANY STUDENTS DO NOT MEET PREREQUISITES FOR SAN JOSE/EVERGREEN COMMUNITY COLLEGE COURSES?

By Jon Alan Kangas, Ph.D.,
District Dean of Academic Standards

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Institutional Research Report #68

September 1, 1987

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ABSTRACT

HOW MANY STUDENTS DO NOT MEET PREREQUISITES FOR SAN JOSE/EVERGREEN COMMUNITY COLLEGE COURSES?

By Jon Alan Kangas, Ph.D., District Dean of Academic Standards
September 1, 1987

In Fall 1985, the San Jose/Evergreen Community College District began its computerized prerequisite checking system as one means of enhancing academic standards. The computerized system can either provide information about whether a student meets a prerequisite (informational mode) or prevent a student from registering (lock out mode). The system was in an informational mode for all courses for Fall 1985 and Spring 1986. English went into a lock out mode in Fall 1986; ESL in Spring 1987.

If all courses in the District were in a lock out mode in Fall and Spring, the following percent of attempts to register would not have been permitted:

Fall 1985:	41% did not meet prerequisites (includes incompleteness in system and error)
Spring 1986:	31% did not meet prerequisites (includes incompleteness and error)
Fall 1986:	24% did not meet prerequisites (includes incompleteness and error)
Spring 1987:	15% did not meet prerequisites (includes incompleteness and error)

The number of students not meeting prerequisites has been dropping steadily since the introduction of the system. English and ESL have already entered a lock out mode. The percent not meeting prerequisites in these two disciplines was as follows:

		FA 85	SP 86	FA 86	SP 87	
ENGL						
	EVC	40	28	0*	0	
	SJCC	37	30	0*	0	
	DIST	38	29	0*	0	
ESL						
	EVC	33	41	23	0*	
	SJCC	17	23	16	0*	
	DIST	26	32	19	0*	*Entered lock out mode

Seventeen (17) more disciplines will enter the lock out mode for Fall 87 and Spring 88. In general, they show a decline in the percent of students not meeting prerequisites. If the lock out mode were enforced in these disciplines during Fall 1986, the following information should be of help in planning.

COURSE	COLL	FA 85	SP 86	FA 86	SP 87	COURSE	COLL	FA 85	SP 86	FA 86	SP 87
ART	DIST	6	7	15	14	LASER	DIST	93	68	52	32
AUTO	DIST	53	55	49	27	MATH	DIST	42	34	25	18
COM S	DIST	64	27	16	11	MUSIC	DIST	14	12	15	8
CNSTR	DIST	36	53	52	57	NURS	DIST	28	37	23	30
CT	DIST	97	90	63	27	PHIL	DIST	69	32	17	16
DRAFT	DIST	58	55	41	28	PHYS	DIST	53	35	32	16
ELECT	DIST	88	74	58	19	P ED	DIST	1	1	9	0
ENGR	DIST	55	70	43	20	SP	DIST	71	35	19	23
HIST	DIST	64	37	22	17						

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BACKGROUND INFORMATION

A strong emphasis has been made in the San Jose/Evergreen Community College District over the past five years to increase academic standards:

1. In Spring 1981, the District Board approved English 1A as the exit standard for written composition for the District.

2. In Fall 1981, the Board commissioned Jon Kangas to consult the two colleges to prepare recommendations designed to increase academic standards for students entering the District. These recommendations were approved in January 1982. They centered around the establishment of basic skills prerequisites for all appropriate college level courses.

3. A District Dean of Academic Standards position was established in Spring 1985 to implement a full matriculation plan and computerized prerequisite checking.

4. Prerequisites were established for all District courses for Fall 1985.

5. To implement these prerequisites, the Board approved the District's Data Processing Department to computerize a prerequisite checking system to also begin Fall 1985. All courses for Fall 1985 and Spring 1986 were in an "informational" mode, i.e., the computer informed students at registration that they did not have a record of prerequisites being met in the District. It did not prevent registration.

6. The computerized prerequisite system also has the ability to prevent registration of students in courses in a "lock out" mode. To phase-in the impact of the implementation of the system, a three-year phase-in plan was established so that the following percentage of students were to be impacted each semester:

Semester	% Impacted	Discipline Chosen
Fall 1986	10%	English
Spring 1987	10%	ESL
Fall 1987	20%	Art, CT, Elect, Laser, Math
Spring 1988	20%	Auto, ComS, Cnstr, Draft, Engr, Hist, Music, Nurs, PE, Phil, Physics, Sp
Fall 1988	20%	---
Spring 1989	20%	---

In order to choose the disciplines for the "lock out" mode, further information was needed. The current research was undertaken to aid in this decision making.

METHOD

A. The Number and Percent of Students by Discipline

In order to determine the extent of impact from a lock out mode on a District discipline, the number of students enrolled at second census in each of the District's disciplines was tabulated and the percent calculated. The results are presented in Appendix A.

B. The Number and Percent of Students Not Meeting Prerequisites by Discipline

The District's computer has kept track of the number of students enrolling in classes but for whom there is not a record of the prerequisite(s) having been met for those classes.

For Fall 1985 through Spring 1987, Data Processing provided printouts indicating the number of students not meeting prerequisites in each discipline in the District by college.

The data included all students who were enrolled after the second week of classes. This data was summarized to include the following information for each college for each semester:

1. # Sects = the total number of sections in the computer for a discipline.

2. # Studs = total number of students in all sections of a discipline.

3. # No Meet Preqs = the number of students in a discipline for which the computer had no record of their meeting the prerequisites for the courses in the discipline.

4. Tot # = the total number for both colleges combined who were enrolled in a particular discipline.

5. Tot No Meet = the numbers of students in a discipline for both colleges for which there was no record of the prerequisite(s) having been met.

6. % No Meet = the percent of students in a discipline for both colleges for which there was no record of the prerequisites being met.

7. District totals indicate the potential total impact of a lock out mode if it were to be totally implemented.

Appendix B presents a summary of this data.

C. Which Disciplines Will be Impacted the Most by the Implementation of a Lock Out Mode?

The data from Appendix B is organized in Appendix C to indicate, from highest to lowest, the percent of students not meeting prerequisites in the District's disciplines for Spring 1987.

RESULTS AND COMMENTS

A. Question: If all disciplines in the District were in a lock out mode, what would have been the impact?

Answer: For Fall 1985 through Spring 1987, the following percent would have been impacted:

	Fall '85	Spr '86	Fall '86	Spr '87
District	41	31	24	15
EVC	42	31	22	11
SJCC	40	31	25	17

Comments: As course prerequisites have been increasingly enforced and as the data in the computer has become more accurate and more complete, the total percentage of students not meeting prerequisites has decreased from 41% to 31% to 24% to 15% from Fall 1985 to Spring 1987.

As more disciplines enter a lock out mode, this percentage should continue to decline.

The phase in of the lock out system, accompanied by the general enforcement of prerequisites in general, has resulted in a steady decline in the number of students not meeting prerequisites. The impact on informational courses going into a lock out mode will thus be greatly reduced.

The percentage of students not meeting prerequisites in disciplines scheduled for lock out in Fall 1987 and Spring 1988 has been as follows:

Discipline	Fall 1985	Spring 1986	Fall 1986	Spring 1987
Art	6%	7%	15%	14%
Auto	53%	55%	49%	27%
Com S	64%	27%	16%	11%
Cnstr	38%	53%	52%	57%
CT	97%	90%	63%	27%
Draft	58%	55%	41%	28%
Elect	88%	74%	58%	19%
Engl*	38%	29%	0%	0%
Engr	55%	70%	43%	20%
ESL**	26%	32%	19%	0%
Hist	64%	37%	22%	17%
Laser	93%	68%	52%	32%
Math	42%	34%	25%	18%
Music	14%	12%	15%	8%
Nurs	28%	37%	23%	30%
Phil	69%	32%	17%	16%
Phys	53%	35%	32%	16%
P Ed	1%	1%	9%	0%
Sp	71%	35%	19%	23%

* Lock out in Fall 1986
** Lock out in Spring 1987

B. Question: Which District disciplines have been most impacted by a lock out mode in Spring 1987?

Answer: The percentage of students not meeting prerequisites ranged from 0-97% for Fall '85, from 0-90% for Spring '86, from 0-82% for Fall '86 and from 0-74% for Spring '87. Classes without listed prerequisites were least affected, e.g., Athletics and Apprenticeship Programs.

The top 20 District disciplines that would have been impacted the most by entering a lock out mode in Spring '87 were as follows:

Discipline	% Impact	Discipline	% Impact
Dent	74	B P	43
I A	72	F C S	36
Mach	66	Ocean	34
Cnstr	57	Micro	33
H Sci	57	CIS	33
L E	52	Drama	32
Japan	49	Laser	32
Supr	47	Geol	32
Mktg	46	Nurs	30
Air C	46	I T V	30

The 22 disciplines that would have been impacted the least would have been as follows:

Discipline	% Impact	Discipline	% Impact
SL	1	II	12
WE	3	Dance	12
Journ	4	S Sci	13
COS	7	Art	14
I/DIS	7	Latin	14
Music	8	Envir	14
LA	8	Humnt	15
Photo	9	A & P	15
Libr	11	Soc	15
Com S	11	Econ	15
AJ	11	PolSc	15

Comments: Disciplines with complex prerequisites or in which students could easily by-pass advisory prerequisites tended to have the highest impact.

Appendix D contains graphs of each discipline in or entering a lock out mode for Fall 1987 and Spring 1988. The graphs indicate the percent of students in the discipline who have not met prerequisites since Fall 1985. I expect the general downward trend to continue through Fall 1987 and Spring 1988.

C. Question: Why does the computer list a student as not meeting a prerequisite?

Answer: It is very important that one understand why a prerequisite is not met. The reasons are listed in their estimated order of impact.

1. Students do not have the basic skills prerequisites for classes. For example, a student may not have ReadL 2 as well as WritL 2 when trying to take History 17A.

2. Students do not have the course prerequisites for classes. For example, a student may not have Drafting 10 as the prerequisite for Drafting 11.

3. Students may have met a prerequisite because of a course taken at another school but did not have the course entered into the prerequisite system.

4. Students with placement test scores taken before 1983 will not meet prerequisites that require that score because it will not always have been entered into the system.

5. A prerequisite may have been written incorrectly.

6. The Same As List may not have been updated, e.g., English 92 was erroneously converted to English 101.

7. The prerequisite system may not have handled some unique situations, e.g., a student who repeated English 92 and raised his grade from a 'D' to a 'C' would not have been recognized for his higher grade.

   Data Processing is reviewing this problem.

8. Prerequisite levels may not have anticipated all possible circumstances, e.g., a student may have taken English 1A in the District but would not be able to take a course with ReadL 1 because the student had not taken any reading in the District. This was corrected for Fall 1986.

9. Scanning errors and errors made by students in entering their social security number account for a portion of the impact.

As prerequisites have been increasingly clarified and enforced, and as the computerized system has been refined, the number of students listed as not meeting prerequisites has declined. For example, the total prerequisites not met were as follows:

Fall 1985	41%
Spring 1986	31%
Fall 1986	25%
Spring 1987	15%

The gradual tightening of prerequisites over several semesters will greatly reduce the impact on disciplines yet to enter a lock out mode.

D. Question: In general, which disciplines would be impacted the most if they were to be placed into a lock out mode?

Answer: Such disciplines tend to have:

1. Complex prerequisites
2. Basic skills combined with a course prerequisite
3. Low levels of basic skills
4. High numbers of well-educated persons
5. Few other courses in a sequence with it
6. No requirement for graduation

APPENDIX A

SAN JOSE COMMUNITY COLLEGE DISTRICT

Disciplines, Number of Sections, and
Number of Students By Discipline for Fall 1985

DATA FOR END OF WEEK ONE

Discipline	Number of Sections		Number of Students		District Total		
	SJCC	EVC	SJCC	EVC	Sections	Students	%
A & P	0	3	0	40	3	40	.1
A J	22	5	297	199	27	496	1.2
A S	5	0	3	0	5	3	--
ACCTG	17	3	811	75	20	886	2.1
AIR C	8	0	178	0	8	178	.4
ANAT	1	3	23	36	4	59	.1
ANTH	1	0	19	0	1	19	--
APP	2	0	0	0	2	0	--
ART	36	10	377	235	46	612	1.4
ASTRO	1	0	19	0	1	19	--
ATH/M	19	0	162	0	19	162	.4
AUTO	0	23	0	475	23	475	1.1
BIOL	8	5	154	81	13	235	.5
BOT	0	3	0	29	3	29	.1
BP	2	0	17	0	2	17	--
BRICK	1	0	0	0	1	0	--
BUS	61	38	931	1176	99	2107	4.9
CAB	2	0	17	0	2	17	--
CHEM	16	20	406	365	36	771	1.8
CIS	37	27	1006	911	64	1917	4.4
CNSTR	11	0	159	0	11	159	.4
COM S	0	13	0	337	13	337	.8
CORCT	7	0	77	0	7	77	.2
COS	6	0	84	0	6	84	.2
CT	62	11	726	156	73	882	2.0
DANCE	23	11	122	196	34	318	.7
DENT	11	0	102	0	11	102	.2
DRAFT	12	16	358	299	28	657	1.5
DRAMA	49	2	141	12	51	153	.4
E C E	23	0	339	0	23	339	.8
E S L	75	38	2094	1620	113	3714	8.6
ECON	7	5	210	221	12	431	1.0
ELEC	9	0	119	0	9	119	.3
ELECT	159	37	2659	778	196	3437	7.9
ENGL	90	80	2616	2714	170	5330	12.3
ENGR & ENGRT	0	12	0	304	12	304	.7
F C S	3	19	81	358	22	439	1.0
FLOOR	3	0	49	0	3	49	.1
FREN	8	2	106	53	10	159	.4
GEOG	3	0	83	0	3	83	.2
Subtotal	800	386	14,545	10,670	1,186	25,215	

(0482g/rev7-86/JK:lt)

Discipline	Number of Sections SJCC	Number of Sections EVC	Number of Students SJCC	Number of Students EVC	District Total Sections	District Total Students	%
GEOL	2	0	17	0	2	17	--
GER	0	1	0	10	1	10	--
GLAZ	4	0	52	0	4	52	.1
GOVT	4	1	11	16	5	27	.1
GUIDE	53	9	446	419	62	865	2.0
H ED	15	8	463	346	23	809	1.9
H SCI	5	0	104	0	5	104	.2
HIST	20	15	937	676	35	1613	3.7
I A	7	0	59	0	7	59	.1
I T V	0	10	0	54	10	54	.1
I/DIS	0	1	0	2	1	2	--
JAPAN	1	0	28	0	1	28	.1
JOURN	5	5	35	29	10	64	.2
L A	27	0	443	0	27	443	1.0
L E	31	0	0	0	31	0	--
LABOR	12	0	68	0	12	68	.2
LASER	6	0	73	0	6	73	.2
LIB	2	0	15	0	2	15	--
LIBR	0	1	0	31	1	31	.1
MACH	24	0	365	0	24	365	.8
MATH	58	58	1876	2084	116	3960	9.2
METEO	1	0	17	0	1	17	--
MICRO	2	3	28	32	5	60	.1
MIL S	2	0	0	0	2	0	--
MKTG	19	0	290	0	19	290	.7
MUSIC	124	17	622	335	141	957	2.2
N S	15	8	434	146	23	580	1.3
NURS	0	30	0	431	30	431	1.0
P ED	300	31	1445	856	331	2301	5.3
PHIL	5	4	178	166	9	344	.8
PHOTO	23	4	249	77	27	326	.8
PHYS	11	11	253	282	22	535	1.2
PHYSC	0	2	0	34	2	34	.1
PHYSO	1	3	28	42	4	70	.2
PLAST	1	0	1	0	1	1	--
POLSC	6	3	165	176	9	341	.8
PSYCH	23	11	407	442	34	849	2.0
REC	2	0	10	0	2	10	--
RIBE	5	0	132	0	5	132	.3
S SCI	5	5	196	243	10	439	1.0
SL	2	1	38	36	3	74	.2
SOC	2	3	78	88	5	166	.4
SP	17	0	451	0	17	451	1.0
SPAN	7	5	134	129	12	263	.6
SPECL	4	0	10	0	4	10	--
SUPR	11	5	200	106	16	306	.7
W E	4	0	13	0	4	13	--
WD PR	16	8	203	206	24	409	1.0
Subtotal	884	263	10,574	7,494	1,147	18,068	99.9%
Grand Total	1,684	649	25,119	18,164	2,333	43,283	

APPENDIX B

SPRING 1987
AND % OF STUDENTS NOT MEETING PREREQUISITES BY DISCIPLINE
IN THE SAN JOSE/EVERGREEN COMMUNITY COLLEGE DISTRICT

DISC	# SECTS	# STUDS	# NO MEET PREQS	% NO MEET	COLL	TOT #	TOT NO MEET	% NO MEET
A & P	1	33	5	15%	EVC	33	5	15%
A J	13	361	47	13%	SJCC			
A J	3	113	7	6%	EVC	474	54	11%
ACCTG	17	535	181	34%	SJCC			
ACCTG	12	396	70	18%	EVC	931	251	27%
AIR C	10	205	94	46%	SJCC	205	94	46%
ANAT	1	23	6	26%	SJCC			
ANAT	1	22	2	9%	EVC	45	8	18%
ANTH	1	28	8	29%	SJCC			
ANTH	0	0	0	0%	EVC	28	8	29%
APP	0	0	0	0%	SJCC	0	0	0%
ART	37	436	58	13%	SJCC			
ART	16	294	41	14%	EVC	730	99	14%
AS	3	4	0	0%	SJCC	4	0	0%
ASTRO	3	81	14	17%	SJCC	81	14	17%
ATH/M	4	81	0	0%	SJCC	81	0	0%
ATH/W	3	34	0	0%	SJCC	34	0	0%
AUTO	28	712	192	27%	EVC	712	192	27%
B P	1	14	6	43%	SJCC	14	6	43%
BIOL	4	106	27	25%	SJCC			
BIOL	5	125	13	10%	EVC	231	40	17%
BOT	0	0	0	0%	EVC	0	0	0%
BRICK	1	9	0	0%	SJCC	9	0	0%
BUS	44	1363	389	29%	SJCC			
BUS	39	1248	142	11%	EVC	2611	531	20%
C T	13	237	65	27%	SJCC			
C T	3	40	10	25%	EVC	277	75	27%
CAB	2	30	0	0%	SJCC	30	0	0%
CHEM	6	147	39	27%	SJCC			
CHEM	9	336	44	13%	EVC	483	83	17%
CIS	30	610	262	43%	SJCC			
CIS	28	921	245	27%	EVC	1531	507	33%
CNST	2	39	8	21%	SJCC	39	8	21%
CNSTR	11	234	134	57%	SJCC	234	134	57%
COM S	19	543	58	11%	EVC	543	58	11%
COMSC	0	0	0	0%	SJCC			
COMSC	0	0	0	0%	EVC	0	0	0%
CORCT	1	1	0	0%	SJCC	1	0	0%
COS	7	210	15	7%	SJCC	210	15	7%
DANCE	25	257	28	11%	SJCC			
DANCE	23	230	32	14%	EVC	487	60	12%
DENT	3	427	317	74%	SJCC	427	317	74%
DRAFT	4	76	35	46%	SJCC			
DRAFT	17	328	78	24%	EVC	404	113	28%
DRAMA	27	263	90	34%	SJCC			
DRAMA	5	76	19	25%	EVC	339	109	32%
E C E	24	701	117	17%	SJCC	701	117	17%
E S L	72	2101	0	0%	SJCC			
E S L	51	1693	0	0%	EVC	3794	0	0%

APPENDIX B

SPRING 1987
AND % OF STUDENTS NOT MEETING PREREQUISITES BY DISCIPLINE
IN THE SAN JOSE/EVERGREEN COMMUNITY COLLEGE DISTRICT

DISC	# SECTS	# STUDS	# NO MEET PREQS	% NO MEET	COLL	TOT #	TOT NO MEET	% NO MEET
ECON	6	219	49	22%	SJCC			
ECON	5	273	27	10%	EVC	492	76	15%
ELEC	9	131	0	0%	SJCC	131	0	0%
ELECT	47	861	162	19%	SJCC			
ELECT	10	169	38	22%	EVC	1030	200	19%
ENGL	82	2410	3	0%	SJCC			
ENGL	87	3025	0	0%	EVC	5435	3	0%
ENGR	11	276	54	20%	EVC	276	54	20%
ENVIR	1	21	3	14%	EVC	21	3	14%
F C S	9	266	134	50%	SJCC			
F C S	14	306	73	24%	EVC	572	207	36%
FLOOR	4	98	0	0%	SJCC	98	0	0%
FREN	10	130	33	25%	SJCC			
FREN	2	34	2	6%	EVC	164	35	21%
GEOG	2	43	9	21%	SJCC	43	9	21%
GEOL	1	38	12	32%	SJCC	38	12	32%
GER	1	5	0	0%	SJCC	5	0	0%
GLAZ	2	36	0	0%	SJCC	36	0	0%
GOVT	4	13	0	0%	SJCC			
GOVT	2	11	0	0%	EVC	24	0	0%
GUIDE	23	626	0	0%	SJCC			
GUIDE	15	423	0	0%	EVC	1049	0	0%
H ED	12	511	159	31%	SJCC			
H ED	6	371	28	8%	EVC	882	187	21%
H S	0	0	0	0%	SJCC	0	0	0%
H SCI	5	146	83	57%	SJCC	146	83	57%
HIST	23	1099	265	24%	SJCC			
HIST	16	798	65	8%	EVC	1897	330	17%
HUMNT	3	27	4	15%	SJCC	27	4	15%
I A	4	64	46	72%	SJCC	64	46	72%
I I	45	1481	173	12%	EVC	1481	173	12%
I T V	8	53	16	30%	EVC	53	16	30%
I/DIS	4	84	6	7%	EVC	84	6	7%
JAPAN	3	67	33	49%	SJCC	67	33	49%
JOURN	4	30	2	7%	SJCC			
JOURN	5	17	0	0%	EVC	47	2	4%
L A	24	831	65	8%	SJCC	831	65	8%
L E	31	813	422	52%	SJCC	813	422	52%
LABOR	9	228	55	24%	SJCC	228	55	24%
LASER	5	57	18	32%	SJCC	57	18	32%
LATIN	1	29	4	14%	EVC	29	4	14%
LIB	2	44	11	25%	SJCC	44	11	25%
LIBR	1	19	2	11%	EVC	19	2	11%
MACH	18	396	263	66%	SJCC	396	263	66%
MATH	59	1900	385	20%	SJCC			
MATH	53	2059	312	15%	EVC	3959	697	18%
METEO	0	0	0	0%	SJCC	0	0	0%
MICRO	1	23	9	39%	SJCC			
MICRO	1	37	11	30%	EVC	60	20	33%
MILS	3	5	0	0%	SJCC	5	0	0%

APPENDIX B

SPRING 1987
AND % OF STUDENTS NOT MEETING PREREQUISITES BY DISCIPLINE
IN THE SAN JOSE/EVERGREEN COMMUNITY COLLEGE DISTRICT

DISC	# SECTS	# STUDS	# NO MEET PREQS	% NO MEET	COLL	TOT #	TOT NO MEET	% NO MEET
MKTG	11	328	151	46%	SJCC	328	151	46%
MUSIC	108	1236	95	8%	SJCC			
MUSIC	26	360	25	7%	EVC	1596	120	8%
N S	8	244	45	18%	SJCC			
N S	6	211	31	15%	EVC	455	76	17%
NURS	17	567	172	30%	EVC	567	172	30%
OCEAN	1	44	15	34%	SJCC			
OCEAN	0	0	0	0%	EVC	44	15	34%
P ED	76	2140	0	0%	SJCC			
P ED	34	1019	0	0%	EVC	3159	0	0%
P E C	1	15	0	0%	SJCC	15	0	0%
P E M	1	18	0	0%	SJCC	18	0	0%
PET	131	2753	0	0%	SJCC	2753	0	0%
PHIL	6	278	53	19%	SJCC			
PHIL	5	214	28	13%	EVC	492	81	16%
PHOTO	18	269	28	10%	SJCC			
PHOTO	5	105	5	5%	EVC	374	33	9%
PHYS	5	160	28	18%	SJCC			
PHYS	10	205	31	15%	EVC	365	59	16%
PHYSC	1	1	0	0%	SJCC			
PHYSC	0	0	0	0%	EVC	1	0	0%
PHYSO	1	36	6	17%	EVC			
PHYSO	1	18	9	50%	SJCC	54	15	28%
PLAST	0	0	0	0%	SJCC	0	0	0%
POLSC	6	227	55	24%	SJCC			
POLSC	3	154	4	3%	EVC	381	59	15%
PST	0	0	0	0%	SJCC	0	0	0%
PSYCH	10	354	86	24%	SJCC			
PSYCH	12	498	49	10%	EVC	852	135	16%
R EST	5	144	26	18%	EVC	144	26	0%
REC	10	17	0	0%	SJCC	17	0	0%
S L	3	64	0	0%	SJCC			
S L	3	77	2	3%	EVC	141	2	1%
S SCI	8	446	57	13%	EVC	446	57	13%
SOC	3	48	12	25%	SJCC			
SOC	2	90	9	10%	EVC	138	21	15%
SP	20	555	127	23%	SJCC	555	127	23%
SPAN	11	173	58	34%	SJCC			
SPAN	14	265	26	10%	EVC	438	84	19%
SPECL	1	3	0	0%	SJCC	3	0	0%
SUPR	9	240	124	52%	SJCC			
SUPR	8	119	43	36%	EVC	359	167	47%
TECH	1	11	3	27%	EVC	11	3	27%
W E	2	79	2	3%	SJCC	79	2	3%
WD PR	11	166	50	30%	SJCC			
WD PR	10	220	50	23%	EVC	386	100	26%
DIST	1946	50497	7439	15%		50497	7439	15%
EVC	717	21337	2339	11%		21337	2339	11%
SJCC	1229	29160	5100	17%		29160	5100	17%

APPENDIX C

% OF STUDENTS NOT MEETING PREREQUISITES RANKED FROM HIGH TO LOW FOR SPRING 1987

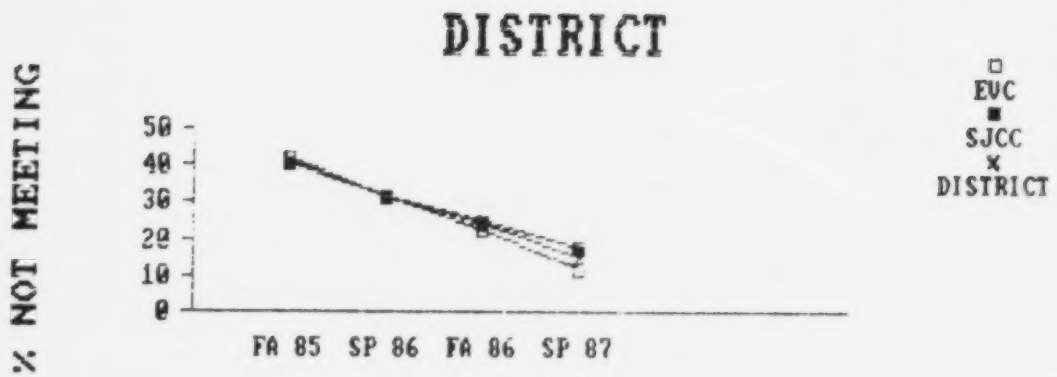
DISC	% NO MEET	DISC	% NO MEET	DISC	% NO MEET
DENT	74%	ENGR	20%	JOURN	4%
I A	72%	ELECT	19%	W E	3%
MACH	66%	SPAN	19%	S L	1%
CNSTR	57%	ANAT	18%	ENGL	0%
H SCI	57%	MATH	18%	APP	0%
L E	52%	SJCC	17%	AS	0%
JAPAN	49%	HIST	17%	ATH/M	0%
SUPR	47%	BIOL	17%	ATH/W	0%
MKTG	46%	ASTRO	17%	BOT	0%
AIR C	46%	CHEM	17%	BRICK	0%
B P	43%	N S	17%	CAB	0%
F C S	36%	E C E	17%	COMSC	0%
OCEAN	34%	PHIL	16%	CORCT	0%
MICRO	33%	PHYS	16%	E S L	0%
CIS	33%	PSYCH	16%	ELEC	0%
DRAMA	32%	POLSC	15%	FLOOR	0%
GEOL	32%	ECON	15%	GER	0%
LASER	32%	SOC	15%	GLAZ	0%
NURS	30%	A & P	15%	GOVT	0%
I T V	30%	HUMNT	15%	GUIDE	0%
ANTH	29%	DIST	15%	H S	0%
DRAFT	28%	ENVIR	14%	METEO	0%
PHYSO	28%	LATIN	14%	MILS	0%
TECH	27%	ART	14%	P ED	0%
C T	27%	S SCI	13%	P E C	0%
AUTO	27%	DANCE	12%	P E M	0%
ACCTG	27%	I I	12%	PET	0%
WD PR	26%	A J	11%	PHYSC	0%
LIB	25%	EVC	11%	PLAST	0%
LABOR	24%	COM S	11%	PST	0%
SP	23%	LIBR	11%	R EST	0%
FREN	21%	PHOTO	9%	REC	0%
H ED	21%	L A	8%	SPECL	0%
GEOG	21%	MUSIC	8%		
CNST	21%	COS	7%		
BUS	20%	I/DIS	7%		

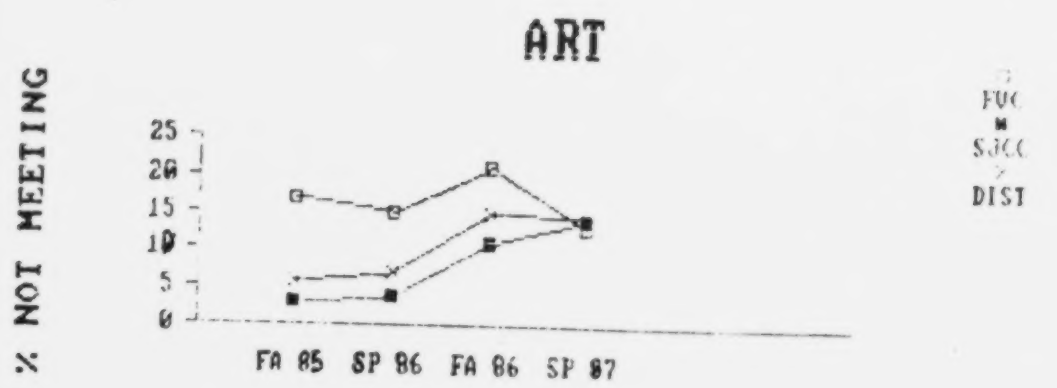
APPENDIX D

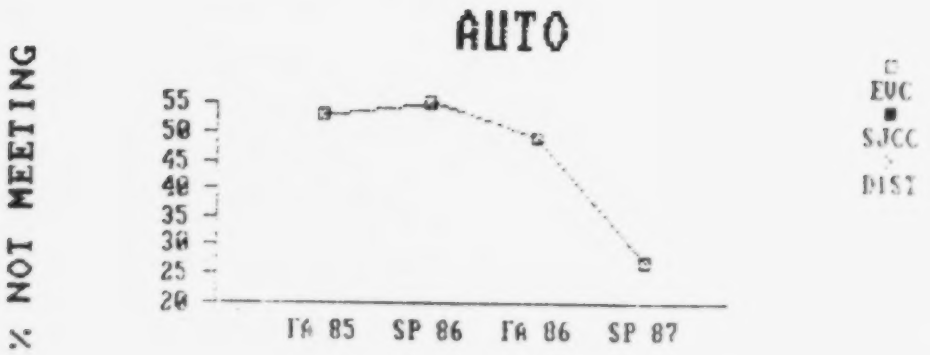
GRAPHS

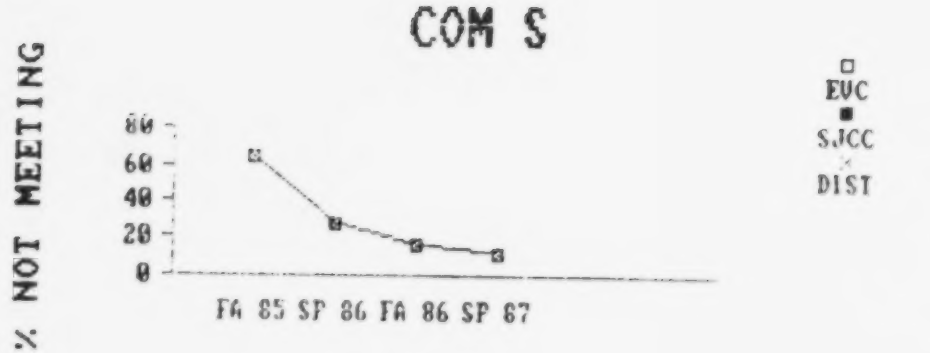
Percent of Students Not Meeting Prerequisites for
Disciplines In or Entering a Lock Out Mode by Spring 1988

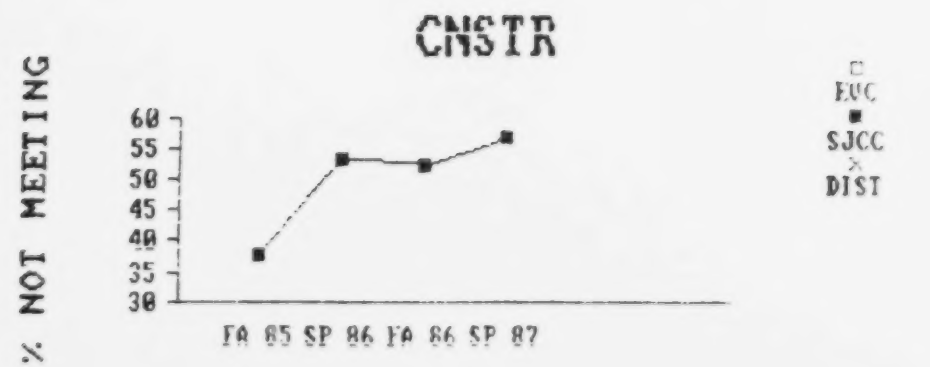
District	CT	ESL	Nursing
Art	Draft	Hist	P Ed
Auto	Elect	Laser	Philo
Com S	Engl	Math	Phys
Constr	Engr	Music	Speech



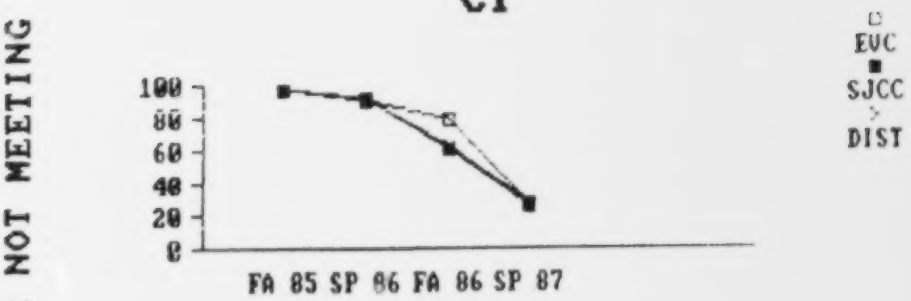



AUTO
% NOT MEETING
55
50
45
40
35
30
25
20
FA 85
SP 86
FA 86
SP 87
EVC
SJCC
DIST


COM S
% NOT MEETING
80
60
40
20
0
FA 85 SP 86 FA 86 SP 87
EVC
SJCC
DIST


CNSTR
% NOT MEETING
60
55
50
45
40
35
30
FA 85 SP 86 FA 86 SP 87
EVC
SJCC
DIST

CT



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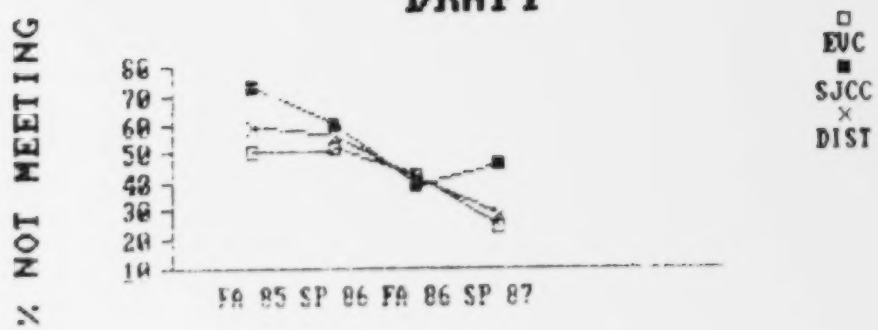
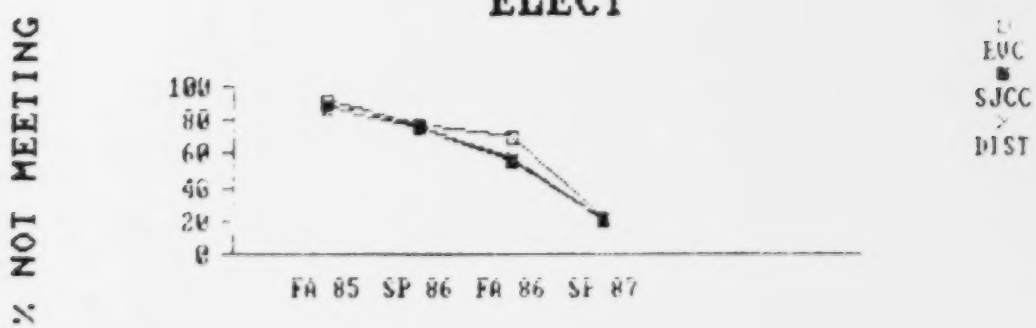


ELECT



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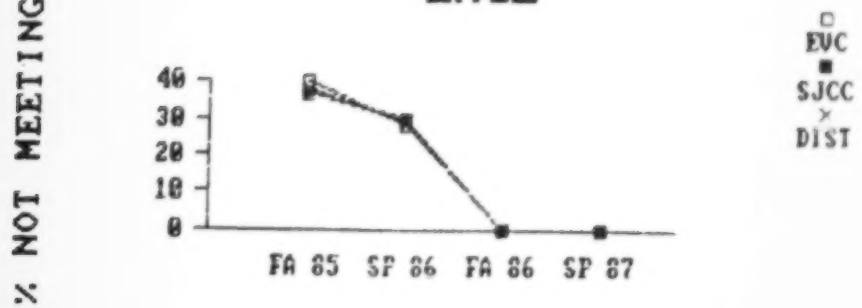

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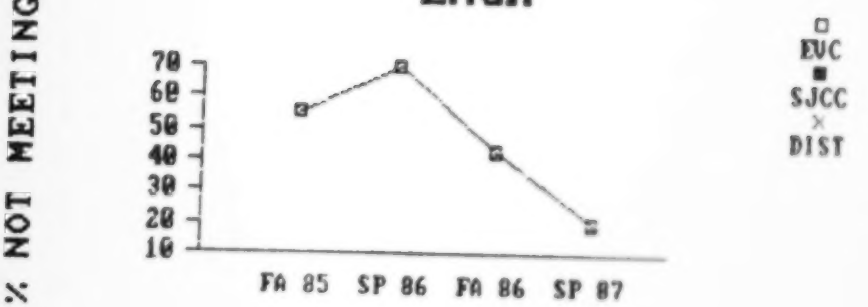

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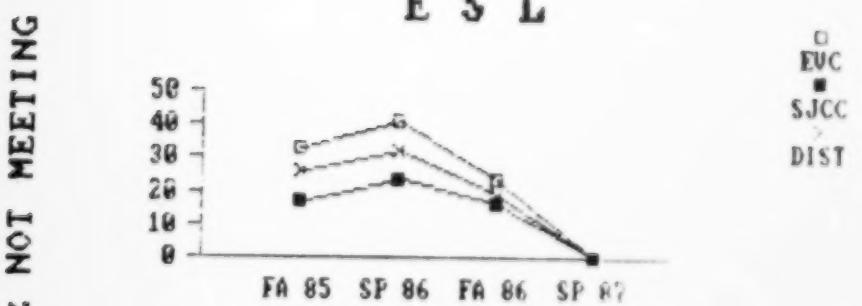

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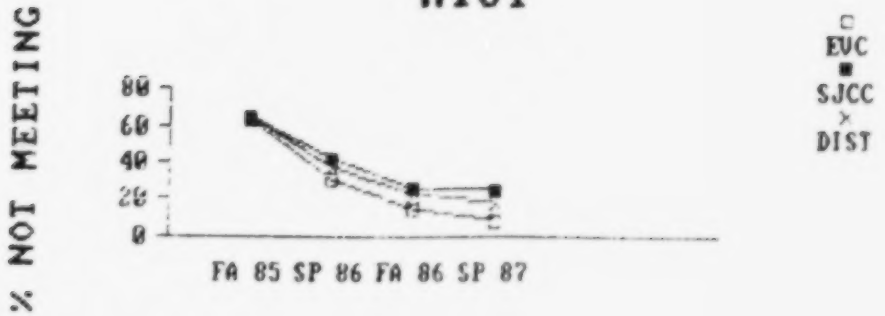

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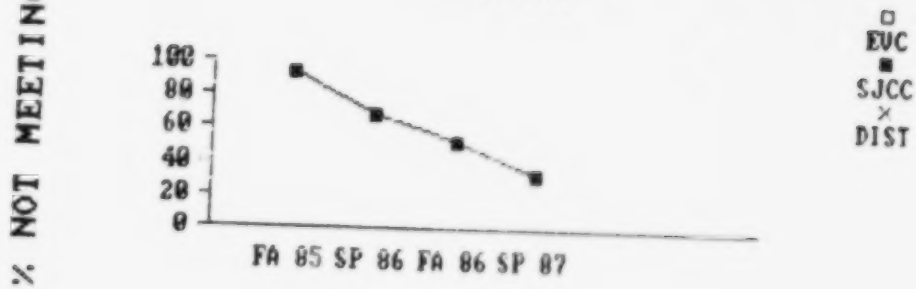

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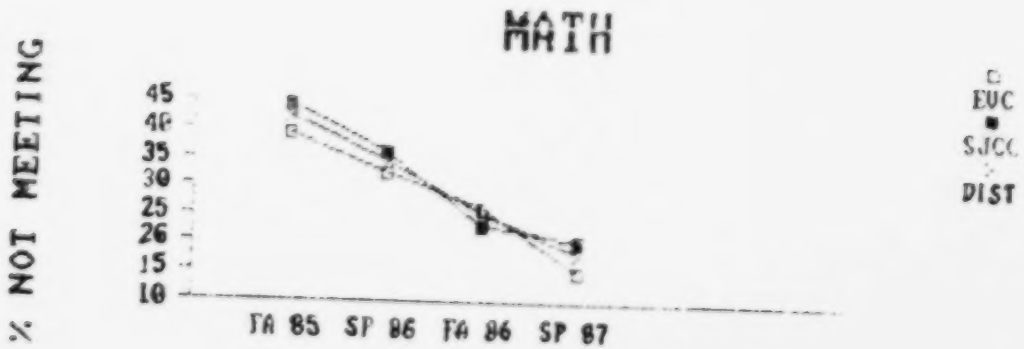
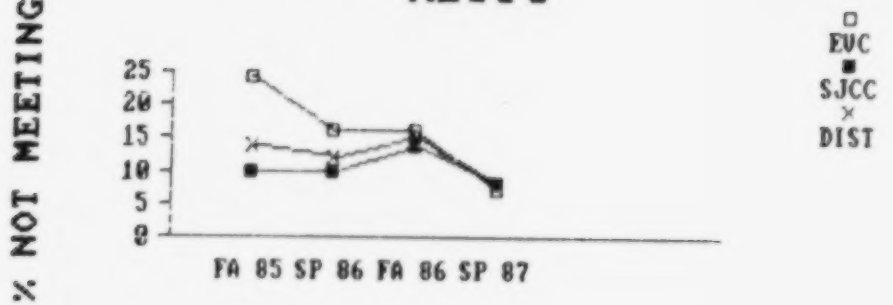


MUSIC



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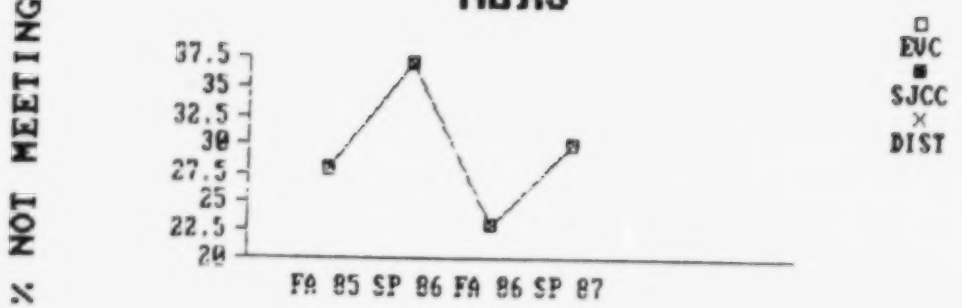
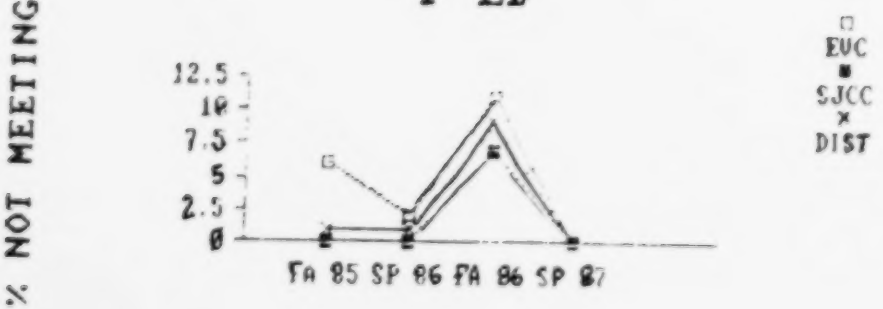
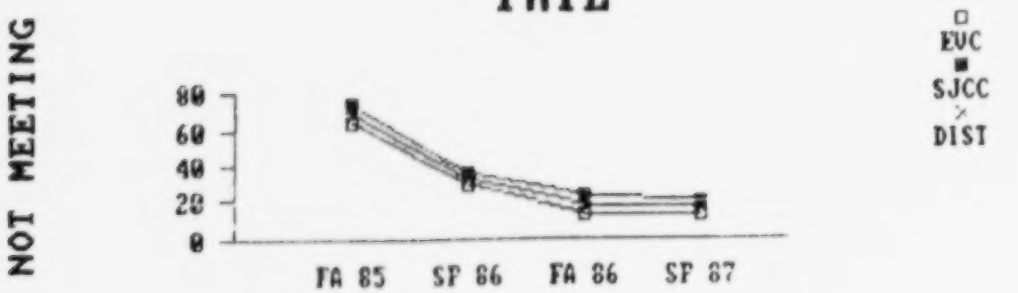


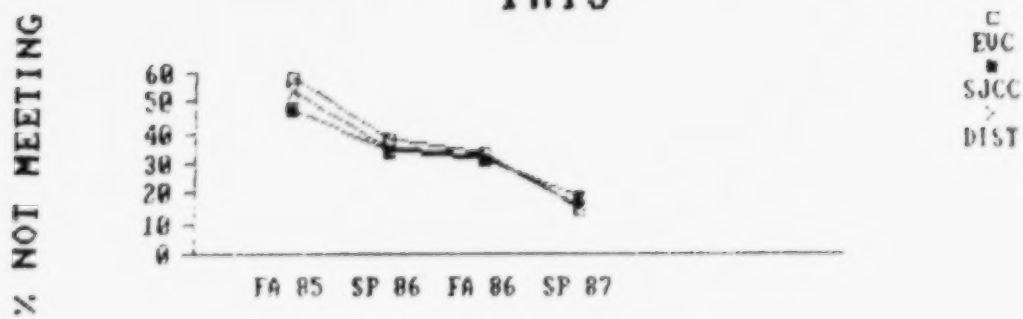
P ED



PHIL



PHYS



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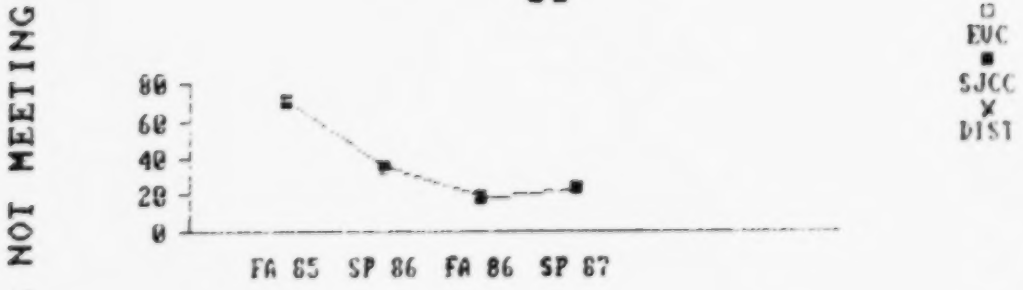

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Junior Colleges JAN 29 1988